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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,045	06/24/2003	Leonard I. Horey	Sunbed-2-4176	1875	
7590 04/06/2004			EXAMINER		
Lawrence J. Shurupoff Sunbeam Products, Inc.				/INOD D	
2381 Executive	Center Drive		ART UNIT	ART UNIT PAPER NUMBER	
Boca Raton, FL 33431			3742		

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	— V • · ·
		10/603,045	HOREY ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Vinod D. Patel	3742	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	correspondence addre	ess
THE N - Extending after	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed vs will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.
Status				
1)🖾	Responsive to communication(s) filed on 24 Ju	<u>ıne 2003</u> .		
2a)	This action is FINAL . 2b)⊠ This	action is non-final.		
3)	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the m	erits is
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Dispositi	on of Claims			
4)🖂	Claim(s) 1-17 is/are pending in the application.			
4	4a) Of the above claim(s) is/are withdrav	vn from consideration.		
5)	Claim(s) is/are allowed.			
·	Claim(s) <u>1-17</u> is/are rejected.			
· · · · —	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction and/or	election requirement.		
Application	on Papers			
9)[] 7	The specification is objected to by the Examine	г.		
10)🛛 🗆	The drawing(s) filed on <u>24 June 2003</u> is/are: a)	□ accepted or b) □ objected to	by the Examiner.	
	Applicant may not request that any objection to the o			
	Replacement drawing sheet(s) including the correcti	- · · · · · · · · · · · · · · · · · · ·		• •
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-	152.
Priority u	nder 35 U.S.C. § 119			
a)[:	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau ee the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Sta	age
A44	6)			
Attachment((s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) 🔲 Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite	
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>06/24/2003</u> .	5) Notice of Informal P	atent Application (PTO-15	2)

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DETAILED OFFICE ACTION

INTRODUCTION

1. This application/control number 10/603,045 has been examined. This is the first action on the merits of the claimed invention. The application has claims 1-17 pending.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: conductive path 21. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1-4, 8 and 13-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka (US5298722).

Tanaka discloses a serpentine conductive path (1) comprising: a plurality of generally parallel wires (2); a pair of conductive busses (3, 3') running generally parallel to one another and generally perpendicular to the wires; where in the wires are electrically connected to the conductive buses and wherein conductive buses comprises a plurality of isolation punches so as to form an electrically conductive serpentine pattern in conjunction with the wires as shown in

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Fig. 1, temperature sensitive wires (2) and buses (3, 3') are woven into woven substrate. The spaces between the buses results in an isolation punches or holes (Column 4, line 10-20).

As for claims 2-3, see col. 2, line 25-32, column 3, line 32-68 and column 4, line 1-10 & 48-51.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 5, 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (US5298722) as applied to claims 1-4 and 8 above, and further in view of Kochman (US5824065).

Tanaka does not disclose wires having a positive temperature coefficient resistivity and wires are crimped/welded to the buses and woven substrate is in blanket.

Kochman discloses a woven electro conductive heater (Fig. 4A,B) comprising a plurality of generally parallel wires (11) having an optional positive temperature coefficient material (19), a pair of conductive buses (13) (column 7, line 45-60). Heater can be utilized in electrically heated blankets, pads, mattresses spread sheets and carpets, wall, furniture, ceiling and floor electric heaters, seat heaters, etc. (column 11, line 14-25).

It would have been obvious to one of ordinary skill in the art to use the positive temperature coefficient material for the heater wire of Tanaka and use heating device for the blanket as taught and suggested by Kochman to control the temperature without using thermostat

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because PTC (positive temperature coefficient) material have self limiting properties and use the heating device for the blanket to use in device for a variety of purposes. See column 4, line 18-19, column 8, line 28-31, column 7, line 57-60 of Kochman.

7. Claims 6-7 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (US5298722) as applied to claims 1-3 above, and further in view of Gardner (US6483087).

Tanaka does not disclose wires are crimped/welded to the buses.

Gardner discloses a serpentine conductive path (Fig. 4) comprising: a plurality of generally parallel wires; a pair of conductive busses running generally parallel to one another and generally perpendicular to the wires; where in the wires are electrically connected to the conductive buses and wherein conductive buses comprises a plurality of isolation punches (26) to form an electrically conductive serpentine pattern in conjunction with the wires. The reference discloses (column7, line 34-43) electrical leads in the form of wires can be attached to the copper foil bus through currently known methods such as solder, brazing, ultrasonic welding or crimping.

It would have been obvious to one of ordinary skill in the art to connect wire to the busses by crimping/welding as taught by Gardner for the heater wire of Tanaka to connect to the busses to establish a connection to complete the electrical circuit.

8. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (US5298722), and further in view of Gray (US4250397).

Claim differs from cited art in calling for punching isolation holes into the conductive buses to form an electrically conductive serpentine pattern in conjunction with wires. Even

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though Tanaka discloses isolation spaces into the conductive buses to form an electrically conductive serpentine pattern in conjunction with wires as described above, the reference is silent about how the holes are formed.

Gray teaches a heating element in which isolation holes are punched into the bus bar to form a serpentine path (Column 6, line 4-11).

It would have been obvious to one of ordinary skill in the art to punch holes into conductive buses of Tanaka as taught by Gray to form an electrically conductive serpentine pattern in conjunction with wires. A specific order in which these steps are performed is not required by the claims.

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ohgushi (US4983814) relates to heating sheets, McGaffigan (US5475203) relates to woven mesh heater, Kleshchik (US6649886) relates to electric heating cloth and method.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinod Patel whose telephone number is 703-308-5227. The examiner can normally be reached at 7.30 A.M. TO 4.00 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Pothier can be reached at 703-308-0265. The fax phone numbers for the organization where this application or proceeding is 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

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Vinod Patel
Patent Examiner
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DENISE POTHIER